



*CD FY08 Tactical Plan Status*

# **FY08 Tactical Plan Status Report for SRM**

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# FY08 Tactical Plan for SRM



- *Relevant Strategic Plan(s)*
  - FY08-09 Strategic Plan for Data Storage and Caching
  - Strategic Plan for Scientific Facilities (2007-2009)
- *Tactical Plan Leader:* Timur Perelmutov
- *Organizational Unit home:* Scientific Facilities
- *Tactical Plan Goals*
  - Satisfy the emerging needs of Fermilab and LHC experiments in Grid Enabled Storage by implementation and improvements of the SRM interface clients and servers and development of the future versions of SRM interfaces.

# Activities Summary: FTEs

## Personnel Usage (FTEs)

<b>Tactical Plan</b> Level 1 Activity		<u>Allocation</u>		<u>Actual YTD</u>			
		FTE-yrs	FTE-mos	FTE-yrs (Ave/mo)	FTE-mos (7 mo)	% consumed YTD	% consumed sans other contributors
<b>SRM</b>							
	Collaboration	0.10	1.2	0.06	0.44	36.67	27.50
	Development	0.58	6.96	0.79	5.56	79.89	79.89
	Project Management	0.11	1.32	0.24	1.66	125.76	45.45
	Support	0.30	3.6	0.29	2.01	55.83	55.56
Total		1.09	13.08	1.38	9.67	73.93	64.91

# Project Activity: Development

*SRM server V2.2 and SRM Client development*

## *Original Goals Related to this Activity*

- *Develop features critically needed (primarily by CMS).*
  - Updated PIN-Manager, ongoing work
- *Develop less critical improvements: WS monitoring, documentation, e2e checksums (with dCache), GridFTP improvements, per-VO quotas, optional file overwrites.*
  - E2E checksumming complete, documentation completed, monitoring improved, gridftp work completed
- *3. Implement SRM v2.2 protocol elements identified by stakeholders as necessary.*
  - Completed WLCG SRM usage agreement, ongoing work to complete

## *Adjusted Goals Related to this Activity*

- Added work to be done to stabilize US-CMS T1 SRM
  - Ongoing
- Same
- SRM V2.2 scope increased
  - Working on WLCG SRM Usage Agreement extension
  - Short term work for WLCG usage

# Project Activity: Development

- Key Milestones (blue new)
  1. ChangeSpaceForFiles Implementation - Dropped as not needed
  2. Automatic SRM server Startup - Completed
  3. dCache 1.8 SRM production deployment Fall 2007 - Completed
  4. Scalable SRM interface - multiple WS endpoints March 2008 - BNL project in progress
  5. VO based AuthZ ownership and rights - Ongoing effort (Ted H.)
  6. SRM V2.2 client - complete
  7. Pin manager with USCMS T1 features - Complete (some additional work expected)
  8. Work to implement WLCG Usage Agreement extensions (not yet started) - Dec 2008
  9. SRM V2.2 permission functions, December 2007 (depends on Chimera) - Not started but Implementation using Unix UID/GID exist, though not very useful for VO
  10. Improved automation and monitoring to reduce operation burdens - not started (was to be new hire)
- Issues and Risks (specific to this activity, includes budget impact)
  1. SRM V2.2 WLCG usage agreement extension is estimated to be 75 working days and would require additional (internal) effort to complete by the end of the year while keeping local commitments

# Project Activity: Collaboration

## *SRM server V2.2 and SRM Client development*

### *Original Goals Related to this Activity*

- *Collaborate with DESY and other dCache & SRM contributors for mutual benefit.*
  - Ongoing
- *Work with stake-holders to identify needed missing features for a version 2.3 of SRM and participate in the SRM Collaboration to define v3 of the SRM protocol.*
  - Ongoing

### *Adjusted Goals Related to this Activity*

- *Same*
  - Ongoing
- *WLCG SRM Usage Agreement extension*
  - No SRM V3 and V2.3 participation
  - Work on extension to WLCG usage agreement with WLCG and experiments

# Project Activity: Collaboration



- *Key Milestones*
  1. SRM V3 protocol - Dropped
  2. SRM WLCG usage agreement extension document  
- May 2008 . Nearly complete
- *Issues and Risks (specific to this activity, includes budget impact)*
  1. Is the SRM V2.2 WLCG usage agreement extension necessary and sufficient?

# Project Activity: Management and Training

*SRM server V2.2 and SRM Client development*

## *Original Goals Related to this Activity*

- *Educate Administrators at various deployment sites*
  - Completed with a variety of workshops and consultations

## *Adjusted Goals Related to this Activity*

- *Same*



# Project Activity: Management and training



- *Key Milestones*
  1. Deliver tutorials at workshops - **completed**
  2. SRM WLCG usage agreement extension document  
- May 2008

# Service Activity: Support

*Provide Support for deployment sites, in particular Fermilab installations*

## *Original Goals Related to this Activity*

1. Support existing and new deployments of dCache SRM, with priority to Fermilab-centered groups (USCMS, FNAL experiments, LQCD).
    - Ongoing
  2. Transition local SRM support to SSA
- **Key Metrics**
    1. Customer feedback
    2. Up-to-date installations

## *Adjusted Goals Related to this Activity*

1. Same
  - Ongoing
2. New developer hire to do support work instead of SSA.
  - Hire lost.

# Tactical Plan Issues and Risks



- *Issues and Risks (+ impact of FY08 DOE/FNAL budget)*
  - Additional work for WLCG usage agreement extension is needed by European SRM/dCache users. Significant development work (75 staff-days).
    - To complete this by December 2008 and achieve other programmatic goals requires additional staff (existing within DSC section).

# Tactical Plan Status Summary



- *Status Summary*
  - Completed implementation of SRM v2.2 subset per WLCG SRM usage agreement and deployed at European T1 sites
  - Completed SRM v2.2 client tools
  - Educated dCache/SRM T1 and T2 site administrators
  - In the process of defining WLCG SRM usage agreement extensions and effort estimations.